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AMENDMENTS TO THE SPECIFICATION

Please amend the following paragraph beginning at page 14, line 32 as follows.

When f is a function symbol used for the axiom, a set of terms $L(A_{i+1}/AC)$ can be calculated by a method that is Rohit Parikh technique extended for tree-structure data. When f is not a function symbol used for the axiom, A_{i+1} can be calculated on the basis of A_i by the method introduced in the above ~~thesis~~ described document by Y. Kaji et al, i.e., "Solving a Unification Problem under Constrained Substitutions Using Tree Automata" (Journal of Symbolic Computation 23 (1), pp. 79-117, 1997). Thereafter, calculation is performed until the repetition condition is satisfied so that the pretreatment of the terms that match the left-hand side (corresponding to 1) of the rewriting rule is completed and the next process is executed.